



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 NORTH HILTON • BOISE, IDAHO 83706 • (208) 373-0502

JAMES E. RISCH, GOVERNOR
TONI HARDESTY, DIRECTOR

July 31, 2006

Certified Mail No. 7005 1160 0000 1550 6667

Mr. Doug Pageler
XL Four Star Beef, Incorporated
P. O. Box 1470
Nampa, Idaho 83653

RE: Facility ID No. 027-00024, XL Four Star Beef, Incorporated, Nampa
Final Permit Letter

Dear Mr. Pageler:

The Idaho Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-060029 to XL Four Star Beef, Incorporated, in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received on June 12, 2006. This permit is effective immediately and replaces PTC Nos. P-030026, issued on August 10, 2004, and P-030052, issued on March 5, 2004, the terms and conditions of which no longer apply. This permit does not release XL Four Star Beef, Inc. from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

A representative of the Boise regional office will contact you regarding a meeting with DEQ to discuss the permit terms and requirements. DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Bill Rogers at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

A handwritten signature in black ink, reading "Martin Bauer", is positioned above the typed name.

Martin Bauer, Administrator
Air Quality Division

MB/TD/bf

Permit No. P-060029

Enclosures

c: **Tom Krinke, Regional Office**
 Bill Rogers, Permit Coordinator
 Tracy Drouin, Permit Writer
 Marilyn Seymore/ Pat Rayne, Air Quality Division
 Laurie Kral, US EPA Region 10
 Permit Binder
 Source File
 Phyllis Heitman (Ltr Only)
 Reading File (Ltr Only)



**Air Quality
PERMIT TO CONSTRUCT**

**State of Idaho
Department of Environmental Quality**

PERMIT No.: P-060029

FACILITY ID No.: 027-00024

AQCR: 64 CLASS: B

SIC: 2011 ZONE: 11

UTM COORDINATE (km): 538.1, 4823.0

1. PERMITTEE

XL Four Star Beef, Inc.

2. PROJECT

Permit to Construct Revision-Transfer of Ownership and Company Name Change

3. MAILING ADDRESS

P. O. Box 1470

CITY

Nampa

STATE

ID

ZIP

83653-1470

4. FACILITY CONTACT

Al Tegtmeier

TITLE

Environmental Manager

TELEPHONE

(402) 594-3237

5. RESPONSIBLE OFFICIAL

Doug Pageler

TITLE

Facility Manager

TELEPHONE

(208) 466-4627

6. EXACT PLANT LOCATION

Amity Road and Railroad Road, Nampa

COUNTY

Canyon

7. GENERAL NATURE OF BUSINESS and KINDS OF PRODUCTS

Beef slaughter and rendering

8. GENERAL CONDITIONS

This permit is issued according to IDAPA 58.01.01.200, Rules for the Control of Air Pollution in Idaho, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment may require DEQ approval pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200, et seq.


**TONI HARDESTY, DIRECTOR
DEPARTMENT OF ENVIRONMENTAL QUALITY**

DATE ISSUED: July 31, 2006

Table Of Contents

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE	3
1. PERMIT TO CONSTRUCT SCOPE	4
2. ABCO BOILER	5
3. RENDERING OPERATIONS.....	7
4. BIOGAS FLARE.....	10
5. PERMIT TO CONSTRUCT GENERAL PROVISIONS.....	11

Acronyms, Units, And Chemical Nomenclature

AQCR	Air Quality Control Region
ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
DEQ	Department of Environmental Quality
dscf	dry standard cubic foot
EPA	U.S. Environmental Protection Agency
gr	grain
gr/dscf	grains per dry standard cubic foot
hr	hour
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pounds per hour
MMBtu/hr	million British thermal units per hour
NSPS	New Source Performance Standards
NO_x	nitrogen oxides
O&M	operation and maintenance
PM	particulate matter
PM₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
SO₂	sulfur dioxide
T/yr	tons per year
UTM	Universal Transverse Mercator

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029

Permittee:	XL Four Star Beef Inc.	Facility ID No. 027-00024	Date Issued:	July 31, 2006
Location:	Nampa, Idaho			

1. PERMIT TO CONSTRUCT SCOPE***Purpose***

Swift Beef Company sold its Nampa, Idaho, facility to XL Four Star Beef, Inc. This PTC removes Swift Beef Company's name from the permit and transfers it to XL Four Star Beef, Inc. Upon issuance, the applicable terms and conditions of this PTC will replace the following PTCs, the terms of which shall no longer apply:

- Permit No. P-030052 issued March 5, 2004
- Permit No. P-030026 issued August 10, 2004

Regulated Sources

- Table 1.1 below lists all sources of emissions that are regulated in this PTC.

Table 1.1 REGULATED EMISSION SOURCES

Permit Section	Source Description	Emissions Control(s)
2	ABCO boiler, dual fuel-fired, Heat input capacity – 29.4 MMBtu/hr	None
3	Rendering operations	Venturi, packed-bed, and spray chamber scrubbers
4	Anaerobic lagoon biogas flare	None

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029

Permittee:	XL Four Star Beef Inc.	Facility ID No. 027-00024	Date Issued:	July 31, 2006
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2. ABCO BOILER**2.1 Process Description**

The ABCO boiler, Model No. 700 AMA-T-DG, has a rated heat input capacity of 29.4 MMBtu/hr and can be fueled by either natural gas or tallow (rendered animal fat). The boiler is used to generate process steam.

2.2 Emission Control Description

There is no control equipment for this boiler.

Emissions Limits**2.3 Grain-loading Limits**

The permittee shall not discharge to the atmosphere from any fuel-burning equipment, with a maximum rated input of 10 MMBtu/hr or more and commencing operation on or after October 1, 1979, PM in excess of 0.015 gr/dscf corrected to 3% oxygen by volume when burning gas, or 0.05 gr/dscf corrected to 3% oxygen by volume when burning liquid (i.e., tallow).

2.4 Visible Emission Limit

Emissions from the ABCO boiler stack, or any other stack, vent, or functionally equivalent opening associated with the ABCO boiler, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements**2.5 Fuel Type**

The boiler shall burn only natural gas or tallow.

2.6 Burner Capacity

The maximum burner capacity for the ABCO boiler shall not exceed 29.4 MMBtu/hr.

2.7 Air Pollution Emergency Rule

The permittee shall comply with IDAPA 58.01.01.550-562, *Air Pollution Emergency Rule*.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029**Permittee:** XL Four Star Beef Inc.**Location:** Nampa, Idaho**Facility ID No.** 027-00024**Date Issued:**

July 31, 2006

Monitoring and Recordkeeping Requirements**2.8 Performance Test**

Within 60 days after commencing operation, the permittee shall conduct a particulate matter performance test at maximum operating capacity while burning tallow, in accordance with the procedures in 40 CFR 60, Appendix A, Method 5. The permittee shall also conduct a visible emissions evaluation in accordance with the procedures in IDAPA 58.01.01.625 during the test. Testing while burning is required a minimum of once every five years to demonstrate compliance with permit conditions 2.3 and 2.4. The permittee shall submit a performance test protocol to DEQ for approval with 30 days of the performance test. A report on the results of the test shall be submitted to DEQ within 45 days after completion of the test.

2.9 Fuel-Use Records

The permittee shall maintain records of the amounts of each fuel combusted during each day. The records shall be kept on site and shall be made available to DEQ representatives upon request.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029

Permittee:	XL Four Star Beef Inc.	Facility ID No. 027-00024	Date Issued:	July 31, 2006
Location:	Nampa, Idaho			

3. RENDERING OPERATIONS**3.1 Process Description**

The rendering operations produces saleable byproducts (meat, fat, bone, blood, and offal) resulting from beef slaughter.

3.2 Emission Control Description

Emissions from the cookers are vented through the entrainment trap, heat exchanger, venturi scrubber, and the packed-bed scrubber. The blood dryer is vented through the venturi and packed-bed scrubbers. The room air is vented continuously through the packed bed scrubber and it is also vented, as needed, through a spray-chamber scrubber to control odors. Bleach or chlorine dioxide (ClO₂) are used as a scrubbing medium. The ClO₂ generation and feed systems are connected to the scrubbers. The ClO₂ or bleach systems are connected to oxygen reduction potential (ORP) controllers, which automatically control the feed of ClO₂ or bleach solution to the water circulated in the individual scrubbers. The ORP is a measurement directly related to available ClO₂ in the scrubber recycle solution.

Emissions Limits**3.3 Odors**

The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

3.4 Visible Emission Limit

Emissions from the packed-bed scrubber stack, or any other stack, vent, or functionally equivalent opening associated with the rendering operations, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements**3.5 Controls**

Odorous gases generated from the Dupps 120 U cooker and the Dupps 260 J cooker shall be vented through the entrainment trap, heat exchanger, condenser, SCP Control Inc. venturi scrubber, and the SCP Control Inc. packed-bed wet scrubber. Bleach or ClO₂ shall be used as the scrubbing medium. The ClO₂ generation or bleach and feed systems shall be connected to the venturi scrubber and to the packed-bed wet scrubber. The ClO₂ or bleach systems shall be connected to ORP controllers.

Odorous gases generated from the following processes shall also be vented through the venturi scrubber and packed-bed wet scrubber: two rendering plant pressors, rendering plant centrifuge, rendering plant milling room ventilation air, blood dryer centrifuge, and exhaust gases from the blood drying system. Plant ventilation air shall be vented through the packed-bed wet scrubber and a Quad Corp. spray-chamber wet scrubber if needed to control odors reported pursuant to Permit Condition 3.7.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029

Permittee:	XL Four Star Beef Inc.	Facility ID No. 027-00024	Date Issued:	July 31, 2006
Location:	Nampa, Idaho			

3.6 Scrubber Operating Requirements

- 3.6.1.1 The scrubbing media flow rate to the venturi scrubber shall be maintained at or above 24 gallons per minute (gal/min).
- 3.6.2 The scrubbing media flow rate to the packed-bed wet scrubber shall be maintained at or above 450 gal/min.
- 3.6.3.1 The scrubbing media flow rate to the spray-chamber wet scrubber shall be maintained at or above 14 gal/min when in use.

3.7 Odor Complaints

The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

3.8 Air Pollution Emergency Rule

The permittee shall comply with IDAPA 58.01.01.550-562, *Air Pollution Emergency Rule*.

Monitoring and Recordkeeping Requirements**3.9 Scrubber Monitoring Requirements**

The following information shall be monitored and recorded according to the frequency specified. The records shall be kept on site at all times and shall be made available to DEQ representatives upon request.

- 3.9.1 The permittee shall install, calibrate, maintain, and operate monitors to continuously measure the scrubbing media flow rates to the Venturi scrubber, packed-bed wet scrubber, and spray-chamber wet scrubber. Scrubbing media flow rates shall be monitored and recorded once every eight hours during operation.
- 3.9.2.1 The permittee shall install, calibrate, maintain, and operate an ORP controller to continuously measure the chemical concentrations in the packed-bed wet scrubber. The chemical concentrations shall be monitored and recorded once every eight hours during operation.
- 3.9.3.1 The permittee shall install, calibrate, maintain, and operate an ORP controller to continuously measure the concentrations in the spray-chamber wet scrubber when in operation. The chemical concentrations shall be monitored and recorded once every eight hours during operation.

3.10 Quality Assurance Manual

The permittee shall prepare a DEQ-approved quality assurance manual for bleach or ClO_2 , which describes methods and procedures that will be followed to assure adequate quantities of chemicals are added to the scrubbing media for the packed-bed wet scrubber and the spray-chamber wet scrubber. The quality assurance manual may be brief, but at a minimum must address the following: the types of chemicals used,

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029

Permittee:	XL Four Star Beef Inc.	Facility ID No. 027-00024	Date Issued:	July 31, 2006
Location:	Nampa, Idaho			

minimum chemical residual requirements, and recording once every-eight-hour the ORP readings of the chemical residual monitoring regime. The quality assurance manual shall be maintained on site at all times and shall be made available to DEQ representatives upon request.

Reporting Requirements**3.11 Odor Complaints**

The permittee shall submit semiannual reports to DEQ by January 15 and July 15 of each year summarizing the occurrences of odor complaints and corrective actions taken during the period.

3.12 Certification of Documents

In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029**Permittee:** XL Four Star Beef Inc.**Location:** Nampa, Idaho**Facility ID No.** 027-00024**Date Issued:** July 31, 2006**4. BIOGAS FLARE****4.1 Process Description**

The biogas flare is used to burn the gases released by the anaerobic lagoons.

Emissions Limits**4.2 Emissions Limits**

Emissions of SO₂ shall not exceed 4.0 lb/hr averaged over a 24-hour period, nor shall the flare emit PM in excess of 0.2 pounds per 100 pounds of biogas burned in accordance with IDAPA 58.01.01.786.

4.3 Opacity Limit

Emissions from the biogas flare, or any other stack, vent, or functionally equivalent opening associated with the biogas flare, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements**4.4 Operations and Maintenance Manual Requirements**

Within 60 days after startup, the permittee shall have developed an O&M manual for the biogas flare which describes the procedures that will be followed to comply with General Provision 2 and the manufacturer specifications. This manual shall remain onsite at all times and shall be made available to DEQ representatives upon request. The permittee shall submit a copy of the manual to DEQ for review by April 30, 2004, in accordance with General Provision 9.

4.5 Automatic Shutoff

The permittee shall install, calibrate, and maintain an automatic fuel shutoff that stops the fuel flow in case of a flameout.

4.6 Air Pollution Emergency Rule

The permittee shall comply with IDAPA 58.01.01.550-562, *Air Pollution Emergency Rule*.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029

Permittee:	XL Four Star Beef Inc.	Facility ID No. 027-00024	Date Issued:	July 31, 2006
Location:	Nampa, Idaho			

5. PERMIT TO CONSTRUCT GENERAL PROVISIONS

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
 - To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and require stack compliance testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the Director.
4. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211.01 and 211.03:
 - A notification of the date of initiation of construction, within five working days after occurrence;
 - A notification of the date of completion/cessation of construction, within five working days after occurrence;
 - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
 - A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
 - A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date
6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060029

Permittee:	XL Four Star Beef Inc.	Facility ID No. 027-00024	Date Issued:	July 31, 2006
Location:	Nampa, Idaho			

All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations; DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

7. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
8. In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.